



## Natalia Terenti

**Telefon:**

0759110772

**Email:**

terentinatalia@gmail.com

### Locul pentru care se candideaza

Cercetator stiintific postdoctorand

### Experienta profesionala

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***Asistent cercetare: 10/2017 – prezent***

Facultatea de Chimie si Inginerie Chimica, Universitatea Babes-Bolyai, str. Arany Janos, 11, Cluj-Napoca, Romania

***Cercetator stiintific: 05/2023 – prezent***

Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Izotopice și Moleculare, Str. Donath 67-103, Cluj-Napoca 400293

***Chimist: 07/2014 – 08/2017***

Institutul de Chimie al Academiei de Stiinte a Moldovei, Laboratorul de Chimie Bioanorganica si Nanocompozite, str. Academiei 3, Chisinau, Moldova

***Cercetator stiintific stagiar: 06/2013 – 06/2017***

Institutul de Fiziologia Stresului, Adaptarii si Sanocreatologie Generala, str. Academiei 3, Chisinau, Moldova

### Educatie

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***Studii doctorale: 10/2017 – 07/2022***

Scoala Doctorala a Facultatii de Chimie, Universitatea Babes-Bolyai, str. Arany Janos, 11, Cluj-Napoca, Romania

Conducator stiintific: Prof. Dr. Ion Grosu

***Studii de master: 2015 – 2017***

Facultatea de Chimie si Fizica a Academiei de Stiinte a Moldovei, Str. Academiei 3/2, Chisinau, Moldova

***Studii Licenta: 2011 – 2015***

Facultatea de Biologie si Chimie, Universitatea de Stat din Tiraspol, str. Iablocikin 5, Chisinau, Moldova

## **Aptitudini si interese stiintifice**

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- Sinteza organica
- Celule solare organice (OSCs)
- Materiale aromatice poroase (COFs, PAFs)
- Cataliza eterogena
- Chimie coordinativa (complexi homo- si heterometalici)
- Analiza termogravimetrica
- Aptitudini tehnice: utilizarea spectrometrului RMN, UV-Vis, IR, fluorimetru
- Aptitudini digitale: Microsoft Office, MestreNova, Xcalibur, Diamond, Chemdraw, Sigma plot

## **Limbi strine**

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Engleza – B2

Rusa – B2

Franceza – A1

## **Alte activitati**

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Membru al comitetului organizatoric executiv pentru organizarea conferintelor:

1. of 5<sup>th</sup> Central and Eastern European Conference on Thermal Analysis and calorimetry (CEEC-TAC5) and 14<sup>th</sup> Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta 2019), Rome, Italy (08/2019)
2. 12<sup>th</sup> European Symposium on Thermal Analysis and Calorimetry (ESTAC12), Brasov, Romania (08/2018)
3. 4<sup>th</sup> Central and Eastern European Conference on Thermal Analysis and calorimetry (CEEC-TAC5), Chisinau, Republic of Moldova, (08/2017)

Participarea la training: Fabrication and characterization of organic and perovskite photovoltaic cells”, Bordeaux, France, (11/2019)

Internship pentru tineri specialisti si cercetatori organizat International Innovation Centre for Nanotechnologies, Dubna, Russia (07/2017)

## Articole

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1. **N. Terenti**, E. Melnic, V. Fruth, N. Nedelko, P. Aleshkevych, S. Lewińska, A. Ślawska-Waniewska, V. Ch. Kravtsov, A. Lazarescu, V. Lozan, Synthesis and microstructure of BaMnO<sub>3</sub> oxide obtained from coordination precursor, *J. Solid State Chem.*, **2023**, 324, 124108;
2. **N. Terenti**, G.-I. Giurgi, A. P. Crișan, C. Anghel, A. Bogdan, A. Pop, I. Stroia, A. Terec, L. Szolga, I. Grosu, J. Roncali Structure-properties of small donor-acceptor molecules for homojunction single-material organic solar cells, *J. Mater. Chem. C*, **2022**, 10, 5716-5726.
3. **N. Terenti**, G.-I. Giurgi, L. Szolga, I. Stroia, A. Terec, I. Grosu and A. P. Crișan Effect of the Terminal Acceptor Unit on the Performance of Non-Fullerene Indacenodithiophene Acceptors in Organic Solar Cells, *Molecules*, **2022**, 27, 1229-1244.
4. L. Căta, **N. Terenti**, C. Cociug, N. D. Hădade, I. Grosu, C. Bucur, B. Cojocar, V. I. Pârvulescu, M. Mazur and J. Čejka Sonogashira Synthesis of New Porous Aromatic Framework Entrapped Palladium Nanoparticles as Heterogeneous Catalysts for Suzuki–Miyaura Cross-Coupling, *ACS Appl Mater Interfaces*, **2022**, 14, 10428–10437.
5. **N. Terenti**, A. P. Crișan, S. Jungsuttiwong, N. D. Hădade, A. Pop, I. Grosu and J. Roncali, Effect of the mode of fixation of the thienyl rings on the electronic properties of electron acceptors based on indacenodithiophene (IDT), *Dyes Pigm*, **2021**, 187, 109116-109125.
6. **N. Terenti**, M. Ferbinteanu and A. Lazarescu, Crystal structure and characterization of neutral cobalt(III) 2,3- pyridinedicarboxylate complex, *Chem. J. Mold.*, **2018**, 13, 24-29.

## Conferinte

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1. **Terenti N.**, Crișan A. P., Grosu I., Roncali J., “*Sinteza unor noi materiale active, unicomponente, non-fulerenice, pentru fabricarea celulelor solare organice*” Conferința Națională a Școlilor Doctorale din Consorțiul UNIVERSITARIA – Ediția a II-A, 11 – 14 noiembrie **2019**, Timișoara, România.
2. **Terenti N**, Grosu I., Roncali J., “*Non-fullerene acceptors based on fused ring system for single molecular organic solar cells*”, International Conference “ACHIEVEMENTS AND PERSPECTIVES OF MODERN CHEMISTRY” October 9-11, **2019**, Chișinău, Republic of Moldova.
3. **Terenti N.**, Crișan A. P., Jungsuttiwong S., Grosu I., Roncali J., “*Effects of the mode of fusion of thiophene on the electronic properties of electron acceptors based on indacenodithiophene*”, International Symposium on Dyes & Pigments, Modern Colorants; The Synthesis and Applications of  $\pi$ -Systems, 8-11 September **2019**, Seville, Spain.

4. **Terenti N.**, Crișan A. P., Grosu I., Roncali J., "Acceptori non-fulerenici pentru sinteza celulelor organice unicomponente" Conferința Națională a Școlilor Doctorale din Consorțiul UNIVERSITARIA – Ediția a I-a, 31 octombrie – 3 noiembrie **2018**, Iași, România.
  5. **Terenti N.**, Lazarescu A., Fruth V., Petrescu S., Atkinson I. · *Synthesis and microstructure of MnBaO3 oxide obtained from coordination precursor*, IX International conference in chemistry, Kyiv-Toulouse (ICKT-9) , **2017**, Kiev, Ucraina
  6. **Terenti N.**, *Synthesis and investigation of heterometallic Mn(II) complex with 2,3-pyridinedicarboxylate anion*, Conferința Științifică Internațională a studenților și masteranzilor, Ed a VII-a, **2017**, Chisinau, Moldova
  7. **Terenti N.**, Ferbinteanu M., Lazarescu A., *Crystal structure of neutral 2,3-pyridinedicarboxylate cobalt (III) complex*, The 6<sup>th</sup> International Conference Ecological and Environmental chemistry, **2017**, Chisinau, Moldova
  8. Lazarescu A , **Terenti N.**, Melnic E, Kravtsov V., Nedelko N., Ślawska-Waniewska A., *Structure and magnetic properties of MnII-Ba heterometallic 2,3-pyridinedicarboxylate polymer*, Materials Science and Condensed Matter Physics. Ed. 8, **2016**, Chisinau, Moldova
  9. **Terenti N.**, Lazarescu A., *Synthesis of mixed oxides by thermal decomposition of some polynuclear carboxylates*, Conferința Științifică Internațională a Studenților și Masteranzilor VIITORUL NE APARTINE , ED.A VI-A, **2016**, Chisinau, Moldova.
  10. Lazarescu A., Choquesillo-Lazarte D., **Terenti N.**, Lozan V., *d-f mixed-metal assembly with 2,3-pyridinedicarboxylate ligand*, The XVIII-th International Conference Physical Methods in Coordination and Supramolecular Chemistry, **2015**, Chisinau , Moldova
  11. Lazarescu A., Nedelko N., Ślawska-Waniewska A., **Terenti N.**, Turta C., *Supramolecular magnetic interactions in mononuclear copper(II) complexes with thiosemicarbazone Schiff bases derived from 2-hidroxy-3-carboxy-naphthaldehyde*, THE 2 nd INTERNATIONAL CONFERENCE ON CHEMICAL ENGINEERING, **2014**, Iasi, Romania.
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